

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 10/09/1998



MSDS No: 6023

HomeDefense Home & Garden Insect Killer

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HomeDefense Home & Garden Insect Killer

PRODUCT DESCRIPTION: Insecticide (Aerosol)

MANUFACTURER

The SOLARIS Group
of Monsanto Company
P.O. Box 5008
San Ramon, CA 94583-0808

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone 800-225-2883

EPA REG. NO.: 239-2524C PN: 1000-91

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Tetramethrin	0.2	7696-12-0
Phenothrin	0.2	26002-80-2

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White, creamy smooth liquid in aerosol container

IMMEDIATE CONCERNS: Causes moderate eye irritation.

Avoid contact with eyes, skin or clothing.

Harmful if inhaled. Avoid breathing vapor.

Contents under pressure.

Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: The eye irritation of this formulation has been determined on a similar ORTHO formulation. Eye contact may result in slight to moderate eye irritation, e.g. discomfort, redness, swelling and blurred vision. See Toxicology Information, section 11.

SKIN: The skin irritation of this formulation has been determined on a similar ORTHO formulation. Skin contact may result in moderate skin irritation, e.g. discomfort, redness, swelling and possibly blistering. This product is considered to be practically non-toxic to internal organs if it gets on the skin. See Toxicology Information, section 11.

INGESTION: This substance may be slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut. This product contains a petroleum distillate. Petroleum distillates have a low viscosity and can be aspirated into the lungs either during swallowing or vomiting of the product. See Toxicology Information, section 11.

INHALATION: The inhalation toxicity of this substance has been determined on a similar ORTHO product. However, it may be slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. This substance may be irritating if inhaled. Respiratory tract irritation may include, but not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis and difficulty in breathing. See Toxicology Information, section 11.

4. FIRST AID MEASURES

EYES: Flush eyes immediately with plenty of water. See a doctor if irritation persists.

SKIN: If on skin, remove contaminated clothing, wash skin with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: If swallowed, immediately telephone a poison control center, emergency treatment center or a physician for advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container, with label, to an emergency treatment center.

INHALATION: Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required. If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

NOTES TO PHYSICIAN: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis. Emergency Information call 1-800-225-2883.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: >132°F TAG CC

FLAMMABLE CLASS: N.F.P.A (Code 30B) Level I Aerosol

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Water Fog

HAZARDOUS COMBUSTION PRODUCTS: No data available.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Eliminate all sources of ignition in vicinity of spill or released vapor.

Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgate, bentonite or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call

day or night (800) 225-2883.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Store in accordance with NFPA 30B for a Level I aerosol. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. CONTAINER UNDER PRESSURE. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate or store above 130°F.

STORAGE TEMPERATURE: Do not store above 130°F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use this material only in well ventilated areas.

PERSONAL PROTECTION

EYES AND FACE: Wear chemical safety goggles to prevent eye contact during operations such as mixing or transfer or other activities when there is potential for eye contact.

SKIN: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Applicators and other handlers must wear: long sleeved shirt, long pants and shoes with socks. Wash hands and contaminated skin thoroughly after handling. Follow manufacturer's instructions for cleaning /maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

RESPIRATORY: Avoid breathing vapor or mist. This product is not likely to pose an airborne exposure concern when handled and used in accordance with label instructions.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol

APPEARANCE: Opaque white liquid in aerosol canister

pH: No Data Available

PERCENT VOLATILE: No Data Available

DENSITY: No Data Available

SPECIFIC GRAVITY: 0.95 gr/cc at 20°C

VISCOSITY: ~380 to 3000cps (Brookfield) at 25°C

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with temps. above 130F. Contents under pressure.

HAZARDOUS DECOMPOSITION: No Data Available

INCOMPATIBLE MATERIALS: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: The eye irritation of this product has been determined on a similar ORTHO formulation considered to be slight to moderate eye. Eye irritation clearing by 48 hours. EPA FIFRA toxicity category - III.

DERMAL LD₅₀: = > 5.0 mg/kg. EPA FIFRA toxicity category - IV.

SKIN IRRITATION: Results with a similar product revealed moderate erythema and edema at 72 hours. This product is not expected to be toxic by dermal absorption. EPA FIFRA toxicity category - IV.

ORAL LD₅₀: = > 5.0 mg/kg. EPA FIFRA toxicity category - IV.

INHALATION LC₅₀: similar formulations - this product is not expected to be toxic. EPA FIFRA toxicity category - III.

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: The active ingredients in this product are not considered to be carcinogens.

NEUROTOXICITY: Neurotoxicology investigations indicate that active ingredients in this product have not been associated with delayed neuropathy.

REPRODUCTIVE TOXIN: The active ingredients in this product have not been associated with adverse teratological (birth defects) or adverse reproductive effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

ECOTOXICOLOGICAL INFORMATION: This material is highly toxic to fish. Keep out of any body of water. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

PRODUCT DISPOSAL: The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.

If necessary to dispose of partially filled product containers, then replace cap and discard in the trash. Do not incinerate, puncture or discard in home trash compactor.

GENERAL COMMENTS: This container may be recycled in the few but growing number of communities where (steel) aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE) If recycling is not available, wrap the container and discard in the trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Consumer Commodity

PRIMARY HAZARD CLASS/DIVISION: ORM-D

UN/NA NUMBER: NONE

PACKING GROUP: NO

U.S. SURFACE FREIGHT CLASS: NMFC NBR. 102120

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Consumer Commodity

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE: YES	CHRONIC: NO	FIRE: YES	REACTIVITY: NO	PRESSURE GENERATING: YES

313 REPORTABLE INGREDIENTS: SUMITHRIN (CAS 7696-12-0).
TETRAMETHRIN (CAS 7696-12-0) De Minimis Concentration for Section 313 is 1.0%.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

HMIS CODES

FIRE: 4 HEALTH: 2 REACTIVITY: 0 PROTECTION: -

NFPA CODES

FIRE: 4 HEALTH: 2 REACTIVITY: 0 SPECIAL: -

APPROVAL DATE: 10/09/1998

REVISION SUMMARY Revision #: 1

This MSDS replaces the September 12, 1995 MSDS. Any changes in information are as follows:

In Section 1

Prepared By Date Prepared EPA Product Number

In Section 3

Emergency Overview - Immediate Concerns (text) Potential Health Effects - Eyes (text)
Potential Health Effects - Skin (text) Potential Health Effects - Ingestion (text)

In Section 4

Firstaid - Eyes (text) Firstaid - Skin (text)

In Section 11

Acute Eye (text) Dermal LD50 (text) Carcinogenicity (text) Neurotoxicity (text) Oral LD50 (text) Inhalation LC50 (text) Reproduction (text)

In Section 12

Ecotoxicological Information (text)

In Section 16

Manufacturer Supplemental Notes (text)

MANUFACTURER SUPPLEMENTAL NOTES: EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) Toxicity Categories: The EPA toxicity categories are based on the results of the acute toxicology studies. The toxicology findings are compared to the FIFRA criteria to determine the product label signal word, precautionary and first aid statements. The EPA FIFRA toxicity category summary:

EPA FIFRA Product Label Toxicity Rating
Toxicity Category Signal Word

I DANGER Most toxic and irritating

II WARNING

III CAUTION

IV CAUTION Least toxic and irritating

COMMENTS: For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

MANUFACTURER DISCLAIMER: This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws.

Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.